HotSpring®
Portable Spas
Built for a lifetime of relaxation.®

HIGHLIFE® NXT COLLECTION

Congratulations on your decision to enjoy the finest spa available... Welcome to the growing family of* HOT SPRING *spa owners.

Pre-Delivery Instructions

Please take the time to read this booklet carefully, as it will provide you with the information you will need to ensure the safe, secure, and timely installation of your new spa. The following sections are guidelines on how to prepare for delivery and set-up of your new spa. Specifically covered are site selection, delivery access, ground preparation, and electrical requirements.

Remember to carefully review the Owner's Manual that accompanies your spa, and to register the spa's warranty within 10 days of delivery. These items, along with other valuable information, will be found in the Owner's Package which has been placed in the equipment compartment of your spa, where you will also find its serial number.

Watkins Manufacturing Corporation reserves the right to change features, specifications and design without notification and without incurring any obligation.

DATE PURCHASED: _____

DATE INSTALLED: _____

DEALER: _____

ADDRESS: _____

TELEPHONE: _____

Register your warranty using the QR code below:

In most cities and counties, permits will be required for the installation of electrical circuits or the construction of exterior surfaces (decks and gazebos). In addition, some communities have adopted residential barrier codes which may require fencing and/or self-closing gates on the property to prevent unsupervised access to a pool (or spa) by children under 5 years of age. Your **HOT SPRING** spa is equipped with a locking cover that meets the ASTM F1346-91 Standard for Safety Covers and as a result, is usually exempt from most barrier requirements. As a general practice, your local Building Department will inform you of any applicable barrier requirements at the time a permit is obtained for the installation of an electrical circuit. Your Hot Spring dealer can provide information on which permits may be required.

Site Selection and Preparation

IMPORTANT: Site selection and preparation are your responsibility. Carefully read these instructions and consult your authorized **HOT SPRING** dealer if you have any questions.

You probably have a spot picked out for your new spa, whether it's indoors or outdoors, on a patio or on a deck. Just make sure you check the following:

- Always put your spa on a structurally sound, level surface. A filled spa can weigh a great deal. Make certain that the location you choose can support the weight of your filled spa.
- Don't forget to level your spa before filling it. (See Spa Leveling Instructions included in Owner's Manual.)
- Locate your equipment compartment, which houses all of the electrical components, in a place where water will drain away from it. Allowing water into the equipment compartment can damage the electronics, or may result in tripping your house's circuit breaker.
- Leave yourself easy access to the circuit breakers in the subpanel 230 volt models.
- Never let water get into the subpanel. Your spa's subpanel is raintight when installed correctly with the door closed.
- Leave access to the equipment compartment for periodic spa care and maintenance.

OUTDOOR AND PATIO INSTALLATION

No matter where you install your new spa, it's important that you have a solid foundation to support it. Structural damage to the spa resulting from incorrect installation or placement on an inadequate foundation is not covered under the spa's limited warranty.

If you install the spa outdoors, a reinforced concrete pad at least four inches thick is required for the Grandee® NXT spa, and recommended for the Envoy® NXT and Jetsetter® NXT spas. The reinforcing rod or mesh in the pad should be attached to a bond wire (see your Owner's Manual). All Hot Spring spas may be installed onto a deck, provided that the load capacity of the deck is greater than the dead weight of the spa (see Deck Installation).

If you place the spa on the ground, even temporarily, place stepping stones under the leveling areas (see Spa Leveling Instructions in your Owner's Manual). The stones should be at least two inches thick and twelve inches square. Even with stones in place, the spa will inevitably settle and become unlevel. Plus, a spa surrounded by dirt or grass will soon be filled with dirt or grass from users' feet; therefore, it is important to get it onto a solid foundation as soon as possible.

DECK INSTALLATION

To be certain your deck can support your spa, you must know the deck's maximum load capacity. **Consult a qualified building contractor or structural engineer before you place the spa on an elevated deck or indoors.** To find the weight of your spa, its contents and occupants, refer to the Spa Specification chart. This weight per square foot must not exceed the structure's rated capacity, or serious structural damage could result.

INDOOR INSTALLATION

Be aware of some special requirements if you place your spa indoors. Water will accumulate around the spa, so flooring materials must provide a good grip when wet. Proper drainage is essential to prevent a build-up of water around the spa. When building a new room for the spa, it is recommended that a floor drain be installed. The humidity will naturally increase with the spa installed. Water may get into woodwork and produce dryrot, mildew, or other problems. Check for airborne moisture's effects on exposed wood, paper, etc. in the room. To minimize these effects, it is best to provide plenty of ventilation to the spa area. An architect can help to determine if more ventilation must be installed.

Your **HOT SPRING** dealer can help you with local information such as zoning regulations and building codes.

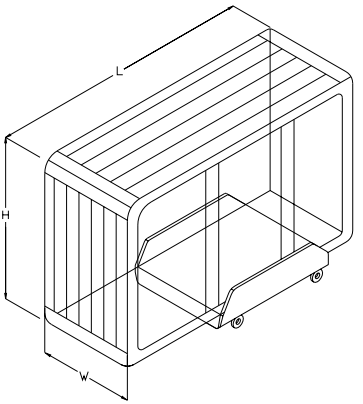
DELIVERY ACCESS

First, locate the dimensions of your spa on the following chart. The dimensions shown are the measurements of the spa in the vertical position, laid on its side.

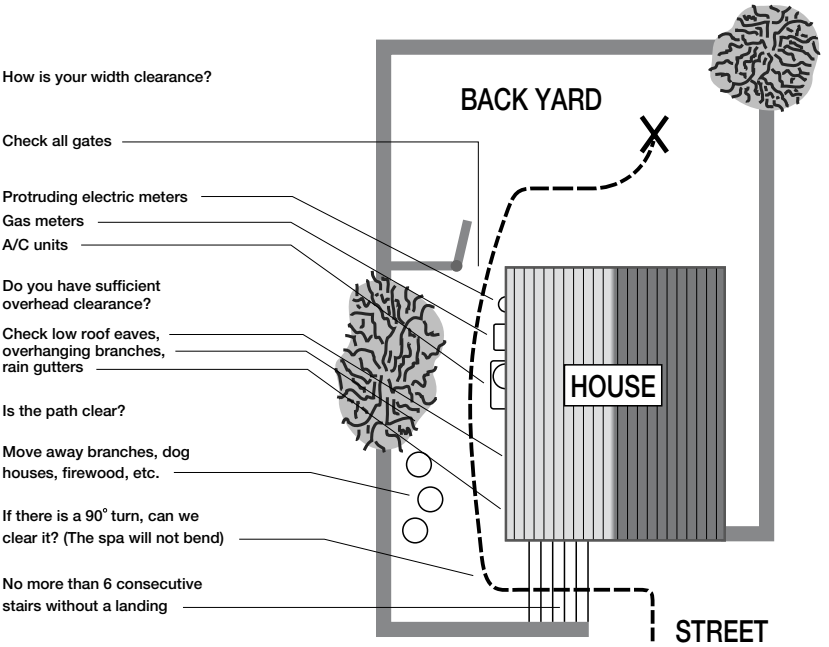
Next, contact your dealer to find the height and width added by the delivery cart which the dealer will use to deliver your new spa. Use the height of the cart plus the dimension shown as H to determine the vertical clearance required to pass the spa and cart. Use the width of the cart, or dimension W, whichever is greater, to determine the maximum width of clearance necessary.

NOTE: It may be necessary to allow for additional over-head clearance if the spa will be rolled up or down an incline or moved up or down a short flight of stairs.

Use the information below to determine the requirements for access to your desired location.



Model	*Width W*	*Length L*	*Height H*
GRANDEE (GGN)	38"	8'4"	7'7"
ENVOY (KKN)	38"	7'9"	7'7"
JETSETTER (JTN)	33"	7'0"	5'5"


How is your width clearance?
Check all gates
Protruding electric meters
Gas meters
A/C units
Do you have sufficient overhead clearance?
Check low roof eaves, overhanging branches, rain gutters
Is the path clear?
Move away branches, dog houses, firewood, etc.
If there is a 90° turn, can we clear it? (The spa will not bend)
No more than 6 consecutive stairs without a landing
BACK YARD
HOUSE
STREET

It may be necessary to remove a gate, part of a fence, or other movable obstructions in order to roll the spa to its installation site. About ten percent of the time, a crane is the only way to install the spa by lifting it to its final destination.

If the spa has to be taken off of the cart to go over a wall (either because the entry area is too narrow, the eaves are too low, the corner is too tight, or the stairway is too steep), a crane will be required. Don't be alarmed!

The crane has a truck-mounted boom which can fit right in your driveway. It is run by a licensed and insured operator. For a charge, the crane operator will lift your spa over walls, buildings, or any other obstruction and place it as close to the installation site as possible. The **HOT SPRING** spa delivery personnel will supervise the crane delivery and complete the spa installation. Crane delivery typically takes an average of 30 minutes to complete.

NOTE: If your spa delivery requires the use of a crane, you may be required to pay for its services at the completion of the delivery.

GROUND PREPARATION

Your Hot Spring spa has been engineered to perform on all kinds of common yard surfaces. While a concrete slab is best for long-term use*, other foundations are acceptable so long as a level base is prepared prior to delivery. Three foundation base pictures, shown at right, represent examples of alternatives to a concrete slab for spas installed without gazebos or other accessories.

***NOTE:** A reinforced concrete pad at least four inches thick or a deck that is able to withstand more than 125 lbs. per square foot is required for the **GRANDEE** NXT spa and recommended for the **ENVOY** NXT, and **JETSETTER** NXT spas.

INSTALLATION NOTES:

- If stepping stones or railroad ties are selected for the spa foundation, they should be placed at the designated leveling areas of your spa to maintain even distribution of the spa weight.
- It is important to note that soft surfaces, even when stepping stones are used to distribute the weight of the spa as evenly as possible, will still have a tendency to settle unevenly, resulting in an unlevel spa.
- Remember, placing the spa on grass or dirt may increase the amount of debris which is inadvertently brought into the spa water on the user's feet.

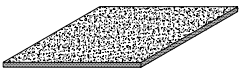
If you are purchasing a deck package or a gazebo with your spa, a solid foundation becomes mandatory. Placing them on any surface other than a single level pad could create problems with their installation. Pictured at right are a few of the recommended surfaces.

As a homeowner, it is your responsibility to provide a suitable, level foundation for your spa. Keep in mind that most delivery crews are not equipped to level and prepare spa sites.

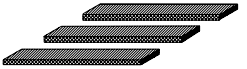
If you are interested in having a concrete slab, brick surface, or wood deck installed, your **HOT SPRING** dealer should be able to suggest a qualified, licensed contractor.

NOTE: In order for the spa to operate properly and the internal plumbing to drain completely, you must ensure that the spa is leveled after it has been installed. The diagrams on the following pages indicate the recommended shimming points on your spa's base support system. Your **HOT SPRING** spa delivery crew can help you perform the procedure.

FOUNDATIONS FOR SPAS ONLY
(No accessories such as cover or gazebo)



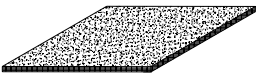
PEA GRAVEL
OR CRUSHED ROCK



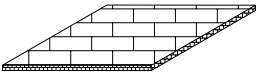
RAILROAD TIES

PRE-CAST
STEPPING STONES

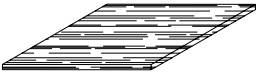
FOUNDATIONS FOR SPAS WITH ACCESSORIES



CONCRETE PADS



BRICK SURFACES



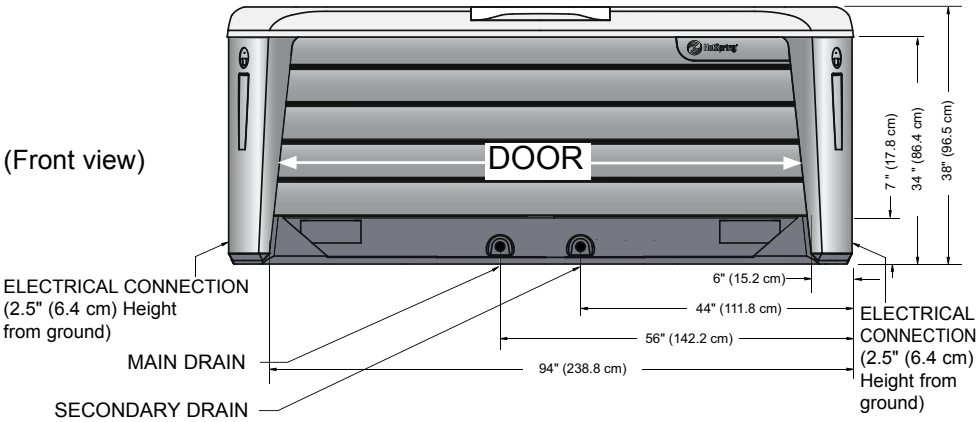
WOOD DECKING

GRANDEE NXT *(MODEL GGN)*

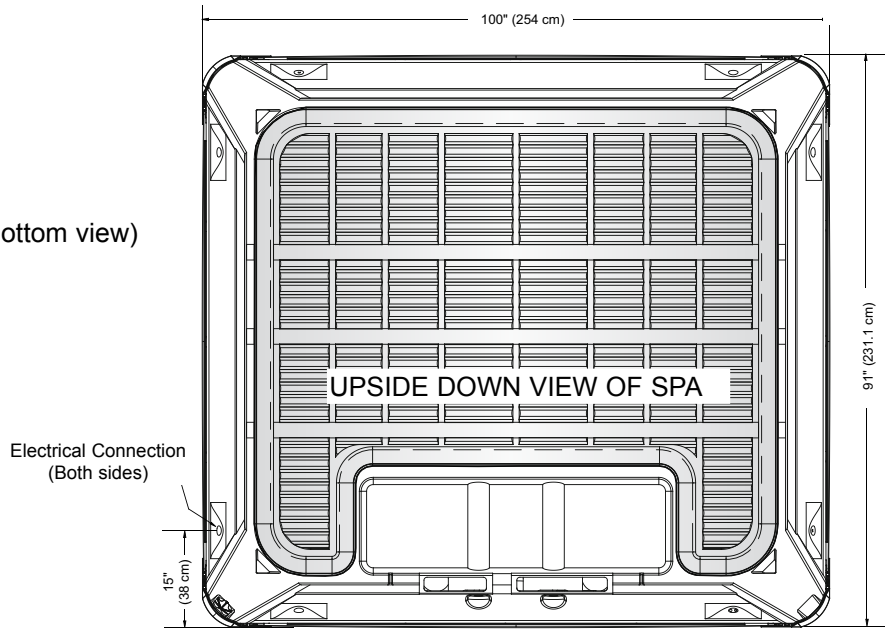
Dimensions

NOTE: All dimensions are approximate; measure your spa before making critical design or pathway decisions.

(Front view)



(Bottom view)



DOOR SIDE

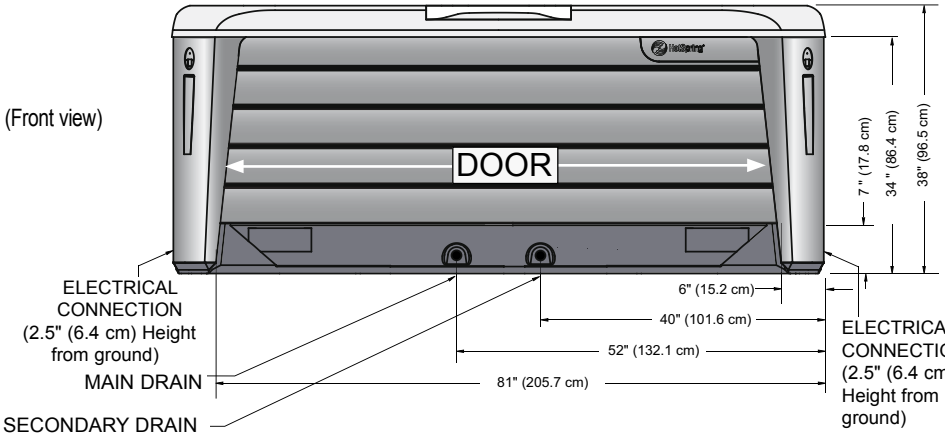
NOTE: Watkins Manufacturing Corporation requires that the **GRANDEE** NXT be installed on a minimum 10 cm (4”) thick reinforced concrete pad or a deck that is able to withstand more than 555 kg/m² (115 lbs. per square foot).

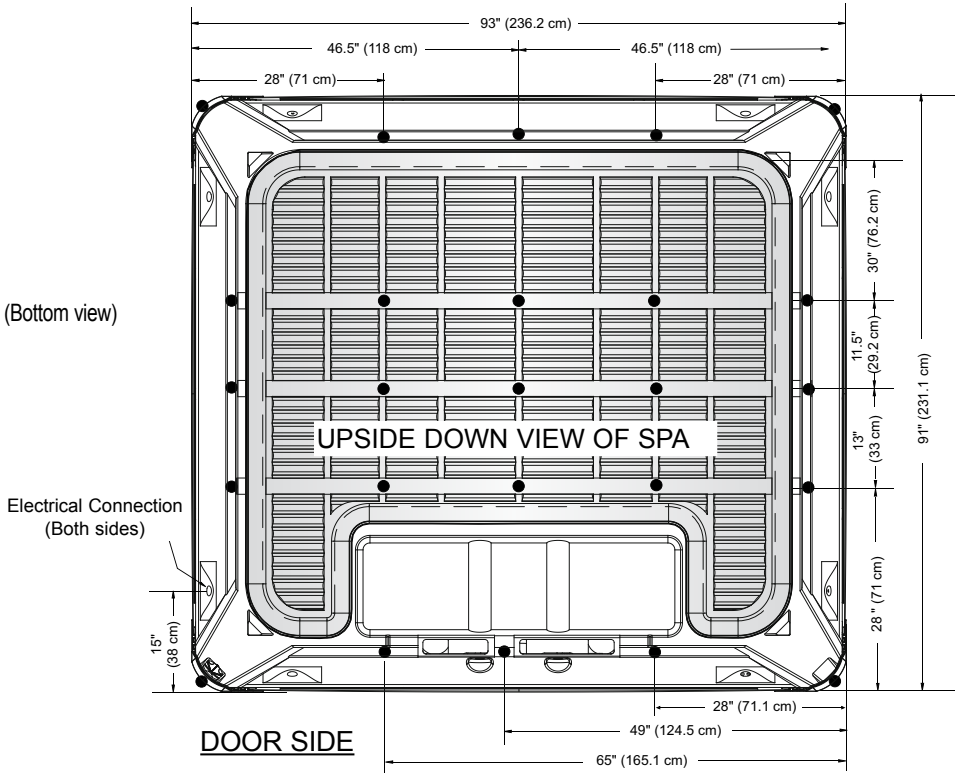
WARNING: The **GRANDEE** NXT must not be shimmed in any manner.

ENVOY NXT *(MODEL KKN)*

Dimensions

NOTE: All dimensions are approximate; measure your spa before making critical design or pathway decisions.



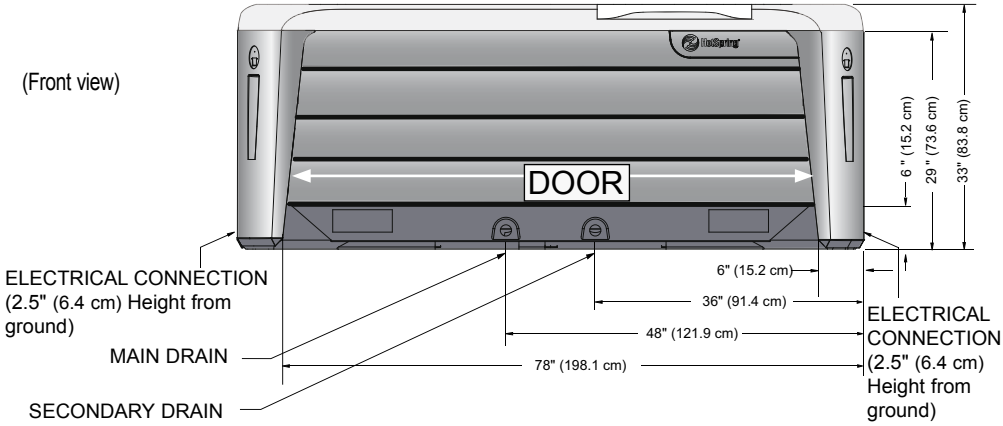


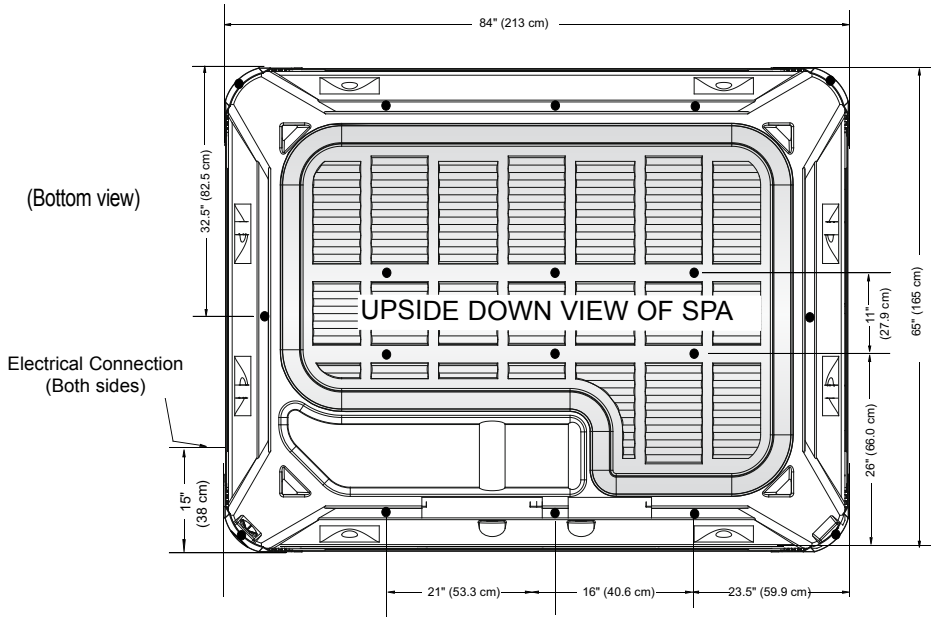
- 25 leveling points (place shims at illustrated locations).

JETSETTER NXT (Model JTN)

Dimensions

NOTE: All dimensions are approximate; measure your spa before making critical design or pathway decisions.





DOOR SIDE

- 18 leveling points (place shims at illustrated locations).

ELECTRICAL REQUIREMENTS

To ensure you will have an opportunity to use your spa soon after delivery, it is very important that the required electrical service has been installed. Unless otherwise stipulated by your dealer, THIS IS YOUR RESPONSIBILITY.

IMPORTANT: All electrical circuits must be installed by a qualified, licensed electrician.

230 VOLT OPERATION REQUIREMENTS

All models require a 50 amp, single phase, 230 volt circuit breaker in the main electrical service panel.

All 230 volt Hot Spring spas must be wired in accordance with applicable local and national electrical codes, all electrical work must be done by a licensed electrician.

NOTE: Watkins Manufacturing Corporation REQUIRES THE USE OF A SUBPANEL TO SUPPLY POWER AND PROTECT THE SPA. The subpanel containing GFCI breakers is included with the spa.

A licensed electrician should install a four-wire electrical service (two line voltages, one neutral, one ground) from the main electrical service panel to the subpanel, and from the sub-panel to the spa per the appropriate wiring diagram as illustrated below.

The grounding conductor must be at least #10 AWG. Your electrician should mount the subpanel in the vicinity of the spa but it should not be closer than five (5) feet from the spa water edge (NEC 680-38 to 41-A-3).

INSTALLATION NOTE: After the spa has been installed by the dealer's delivery crew, your electrician can connect the conduit from the subpanel to the spa's IQ 2020® Control Box and then complete the wiring connections in the control box.

IMPORTANT NOTE: Two different wiring diagrams are shown: one for **GRANDEE** NXT and **ENVOY** NXT models. One for the **JETSETTER** NXT model. Always follow the wiring diagram for your specific model.

NOTE: Complete Installation and Wiring Instructions for all 230 volt Hot Spring models are included in the Owner's Manual and with each sub-panel, which can be obtained from your dealer.

WARNING: Removing or bypassing the GFCI breakers in the subpanel at any time will result in an unsafe spa and will void the warranty.

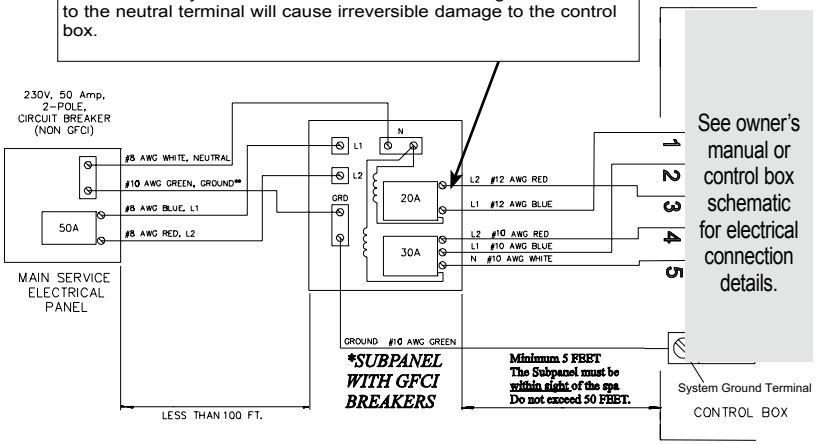
WIRE SPECIFICATION NOTE: Long electrical runs may require a larger gauge feed wire than stated. We recommend that a maximum voltage drop of 3% be used when calculating the larger wire size.

Refer to the Wiring Diagrams to the right for the electrical requirements of the 230 volt models.

When connecting the supply conduit to the bottom of the **IQ 2020** box, use the recommended connectors page attached to the control box inside the spa.

GRANDEE NXT (Model GGN) and **ENVOY** NXT(Model KKN)
230 volt permanently connected models

WARNING! The exact physical location of the terminals on the GFCI breaker will vary between manufacturers. Connecting the hot wire to the neutral terminal will cause irreversible damage to the control box.

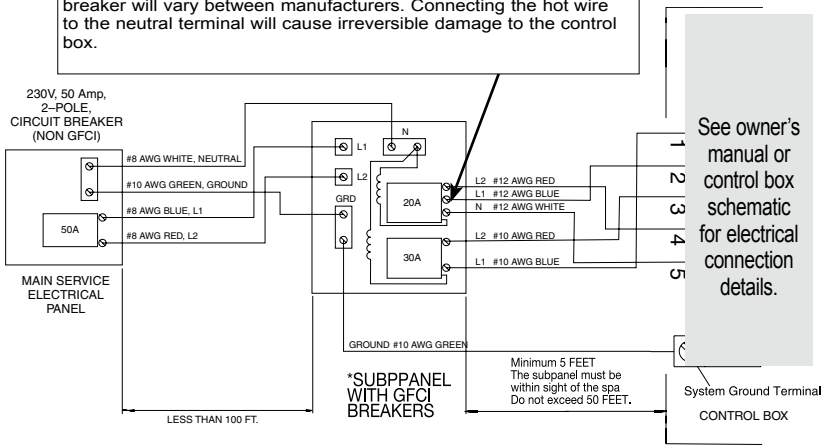


NOTE: The wire connections to GFCI breakers are for reference only. Always ensure the white neutral wire is connected to the load neutral of the 30 amp breaker.

*PROVIDED WITH SPA. NOTE: ALL WIRING SHOULD BE COPPER.

JETSETTER NXT (Model JTN)
230 volt permanently connected models

WARNING! The exact physical location of the terminals on the GFCI breaker will vary between manufacturers. Connecting the hot wire to the neutral terminal will cause irreversible damage to the control box.

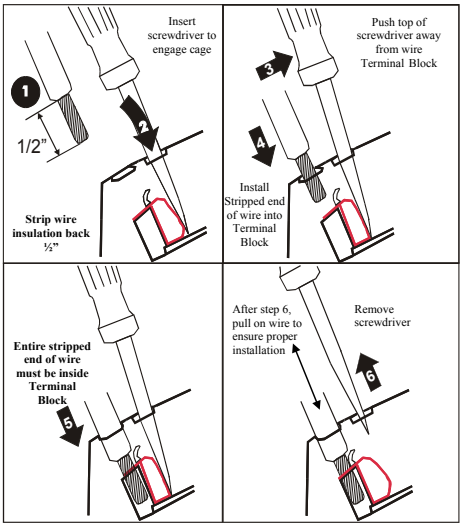


NOTE: The wire connections to GFCI breakers are for reference only. Always ensure the white neutral wire is connected to the load neutral of the 20 amp breaker.

*PROVIDED WITH SPA. NOTE: ALL WIRING SHOULD BE COPPER.

WIRE INSTALLATION
FOR CONTROL BOX TERMINAL BLOCK
(Layout of Spa's Terminal Blocks may vary)

Wire Installation Steps


Insert screwdriver to engage cage
1
1/2"
2
Strip wire insulation back ½"
Push top of screwdriver away from wire Terminal Block
3
4
Install Stripped end of wire into Terminal Block
Entire stripped end of wire must be inside Terminal Block
5
After step 6, pull on wire to ensure proper installation
Remove screwdriver
6

Refer to spa's wiring diagram on back of Control Box Cover for proper wiring and jumper configuration!

ELECTRICAL ACCESS INTO SPA

Front of spa
(Dock side)

3/4" threaded Electrical access (right side of spa). NOTE: Electrical access is also available on left side of spa

Recommended: Attach 3/4" (1.9 cm) Pull elbow to Electrical access on left or right side of spa

SERVICES AVAILABLE FROM YOUR HOT SPRING *SPA DEALER*

Service	*Cost*
Pre-Delivery site inspection	_____
Deliver spa to installation site	_____
Unwrap spa and haul away packaging material	_____
Set up & level spa	_____
Fill the spa with water	_____
Explain and test the spa's operation	
• Jet system • Moto-Massage® DX jet • Comfort Control® system	
• Set temperature control • Control panel functions	
Explain the safety features	
• GFCI • Heater high limit • Heater thermal cut-off	
General spa operation & maintenance orientation	_____
Water quality and maintenance orientation	_____
Adjust the water's Total Alkalinity, Calcium Hardness and pH	_____
Sanitize the water	_____
Inspect the spa cover, place on spa	_____
Review winterizing instructions	_____
Review Owner's Manual & Warranty Card	_____
Follow-up call	_____
In-store spa water analysis	_____
TOTAL COST	_____

ADDITIONAL PRODUCTS AVAILABLE FROM YOUR HOT SPRING SPA DEALER

- ACE® Salt Water Sanitizing System
- EverFresh® water care system featuring the FreshWater® III high output ozone, MPS, and FreshWaterAg+ Silver Ion Cartridge
- Clean Screen® Pre-filter
- Vanishing Act® Calcium Remover
- **FRESHWATER** Bottled Water Care Products
- **FRESHWATER** Test Strips
- **FRESHWATER** Instant Filter Cleaner and Filter Cleaner
- **FRESHWATER** Spa Shine
- **FRESHWATER** CoverShield
- Retractable cover systems including the CoverCradle®, CoverCradle II, UpRite and Lift'n Glide® systems.
    - Cover Cradle - 24" Clearance required
    - Cover Cradle II - 24" Clearance required
    - UpRite - 7" Clearance required
    - Lift 'n Glide - 14" Clearance required
- Vinyl covers
- Spa steps
- Replacement filter cartridges
- Pillows

CONTRACTOR SUGGESTIONS

Electrician

Name: _____
Telephone: _____
Name: _____
Telephone: _____

Masonry

Name: _____
Telephone: _____
Name: _____
Telephone: _____

General

Name: _____
Telephone: _____
Name: _____
Telephone: _____

Spa Specifications

	Footprint dimensions	Height	Effective filter area**	Heater (Watts)	Water capacity	Dry weight	Filled weight*	Dead weight*	Electrical requirements
GRANDEE (Model GGN) Seats 7 Adults	7' 7" x 8' 4" 2.31m x 2.54m	38" 97cm	325 Square Feet	4,000	500 gallons 1.893 liters	940 lbs. 426 kg	6,335 lbs. 2,874 kg	125 lbs. per square foot	230 v System, 230 volt, 50 single phase GFCI protected circuit
ENVOY (Model KKN) Seats 5 Adults	7' 9" x 7' 7" 2.36m x 2.31m	38" 97cm	325 Square Feet	4,000	450 gallons 1.703 liters	830 lbs. 376 kg	5,458 lbs. 2,476 kg	120 lbs. per square foot	230 v System, 230 volt, 50 single phase GFCI protected circuit
JETSETTER (Model JTN) Seats 3 Adults	5'5" x 7'0" 2.26m x 2.26m	33" 84cm	195 Square Feet	6,000	225 gallons 852 liters	480 lbs. 218 kg	2,882 lbs. 1,307 kg	100 lbs. per square foot	230 volt, 50 amp single phase GFCI protected circuit

CAUTION: Watkins Manufacturing Corporation suggests a structural engineer or contractor be consulted before the spa is placed on an elevated deck.

* **NOTE:** The "Filled weight" and "Dead weight" of the spa includes the weight of the occupants (assuming an average occupant weight of 175 lbs).

**Effective filter area is based on 6.5 square feet actual area per filter with 10 times effectivity rating.

Watkins®

The Home Relaxation Specialists

WATKINS MANUFACTURING CORPORATION
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Vista, California 92081
(800) 999-4688 extension 8432

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